Engineering Development Model

Low Pass Filter LFCN-EDU2362_1

Surface Mount

Important Note

This model has been designed, built and tested in our engineering department. Performance data represents model capability.
At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.

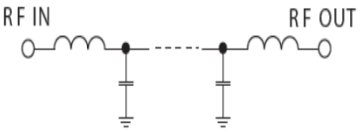
Please click "Back", and then click "Contact Us" for Applications support.

FV1206

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C

Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 1.5 dB)	DC	-	2250	MHz
Insertion loss 3dB		2660	-	MHz
Stop Band (32 dB Typ.)	3200	-	-	MHz
(28 dB Typ.)	3300	-	6200	MHz
Passband VSWR	-	1.2	-	(:1)
Stopband VSWR	-	17	-	(:1)

Functional Schematic



MAXIMUM RATINGS

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	7.9W

PIN CONNECTIONS

Input	1
Output	3
Ground	2,4

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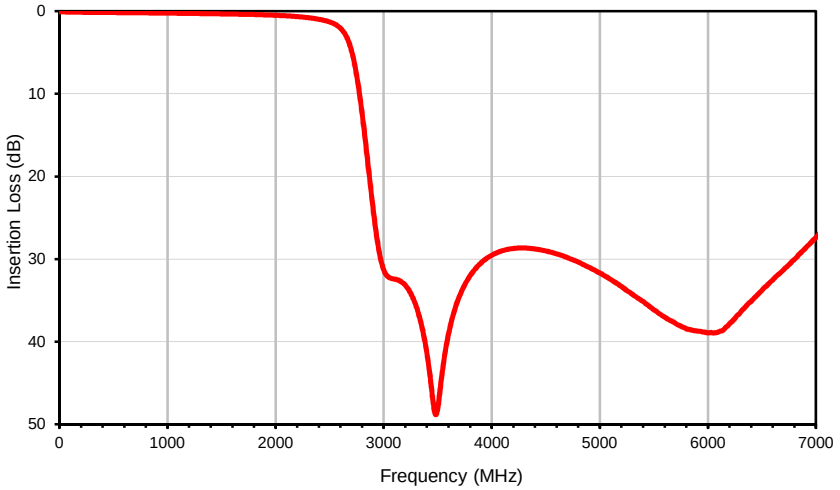
Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)
1.0	0.07	50.97
10.0	0.07	52.72
50.0	0.09	46.12
100.0	0.10	43.27
250.0	0.13	40.22
500.0	0.16	35.62
1000.0	0.23	26.18
2000.0	0.49	26.32
2250.0	0.71	24.90
2500.0	1.30	45.78
2660.0	3.20	11.31
2750.0	7.75	4.68
2800.0	12.34	2.94
2870.0	20.25	1.89
2950.0	28.50	1.42
3000.0	31.28	1.26
3200.0	33.17	0.96
3250.0	34.14	0.92
3750.0	33.11	0.67
4000.0	29.53	0.56
4250.0	28.67	0.47
5500.0	36.13	0.24
6000.0	38.94	0.26
6200.0	37.84	0.29

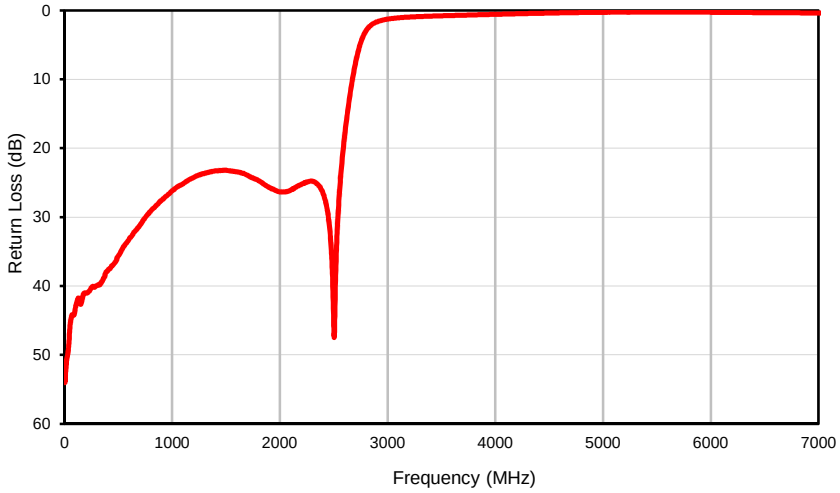
FREQUENCY (MHz)	GROUP DELAY (nsec)
1	0.15
10	0.16
100	0.16
200	0.15
250	0.15
300	0.15
400	0.15
500	0.15
600	0.16
700	0.16
800	0.16
900	0.17
1000	0.17
1100	0.18
1200	0.19
1300	0.19
1400	0.20
1500	0.22
1600	0.23
1700	0.25
1800	0.27
1900	0.29
2000	0.33
2250	0.46

Typical Performance Curves

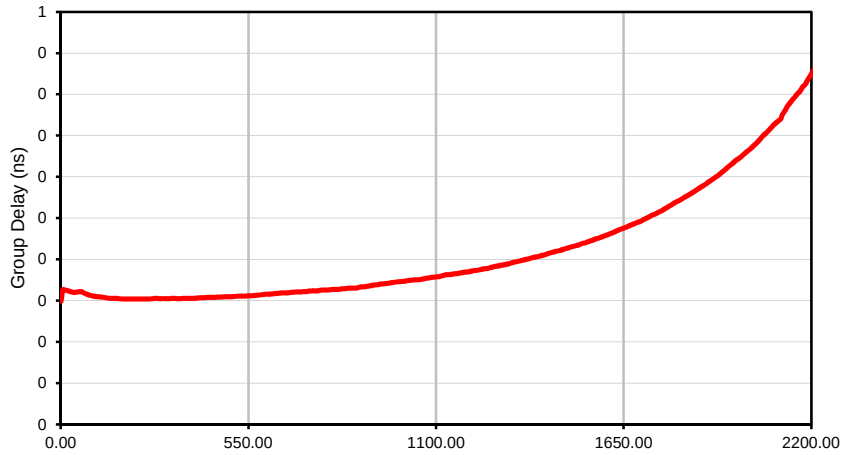
Insertion Loss



Return Loss



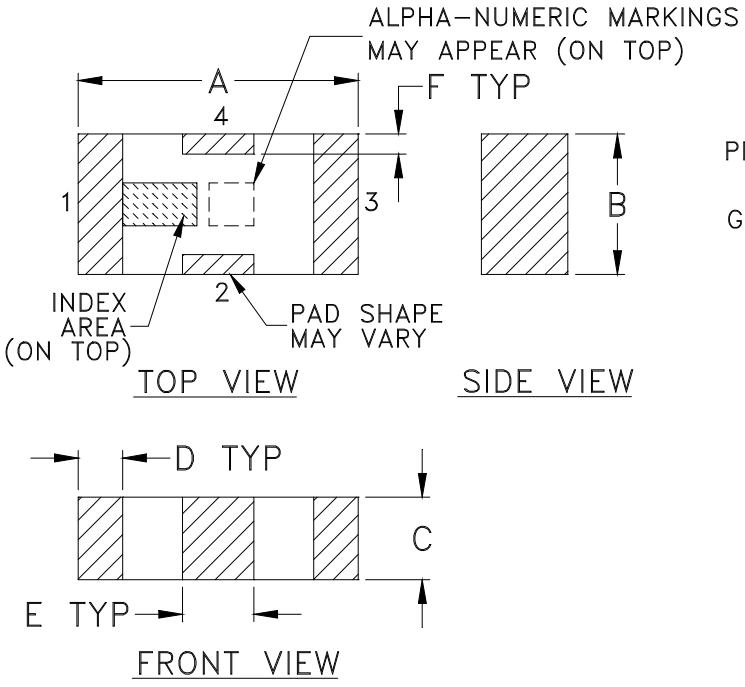
Group Delay



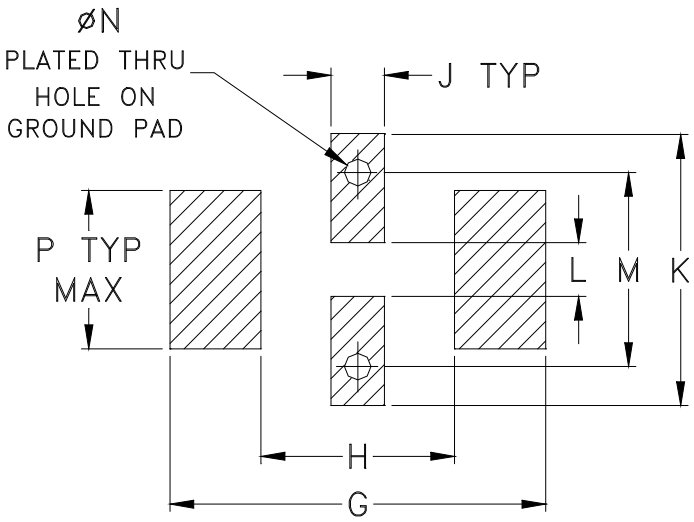
Case Style FV

FV1206

Outline Dimensions



PCB Land Pattern



Suggested Layout,
Tolerance to be within ±.002

CASE #	A	B	C	D	E	F	G	H	J	K	L	M	N	P	WT. GRAM
FV1206	.126 (3.20)	.063 (1.60)	.037 (0.94)	.020 (0.51)	.032 (0.81)	.009 (0.23)	.169 (4.29)	.087 (2.21)	.024 (0.61)	.122 (3.10)	.024 (0.61)	.087 (2.21)	.012 (0.30)	.071 (1.80)	.020

Dimensions are in inches (mm). Tolerances: 2 Pl. ± .01; 3 Pl. ± .005

Notes:

1. Open style, ceramic base.
2. Termination finish: **as shown below or indicated on Data Sheet.**
   For RoHS Case Styles: Tin plate over Nickel plate. All models, (+) suffix.
   For RoHS-5 Case Styles: Tin-Lead plate. All models, no (+) suffix.

Tape & Reel Packaging TR-F71

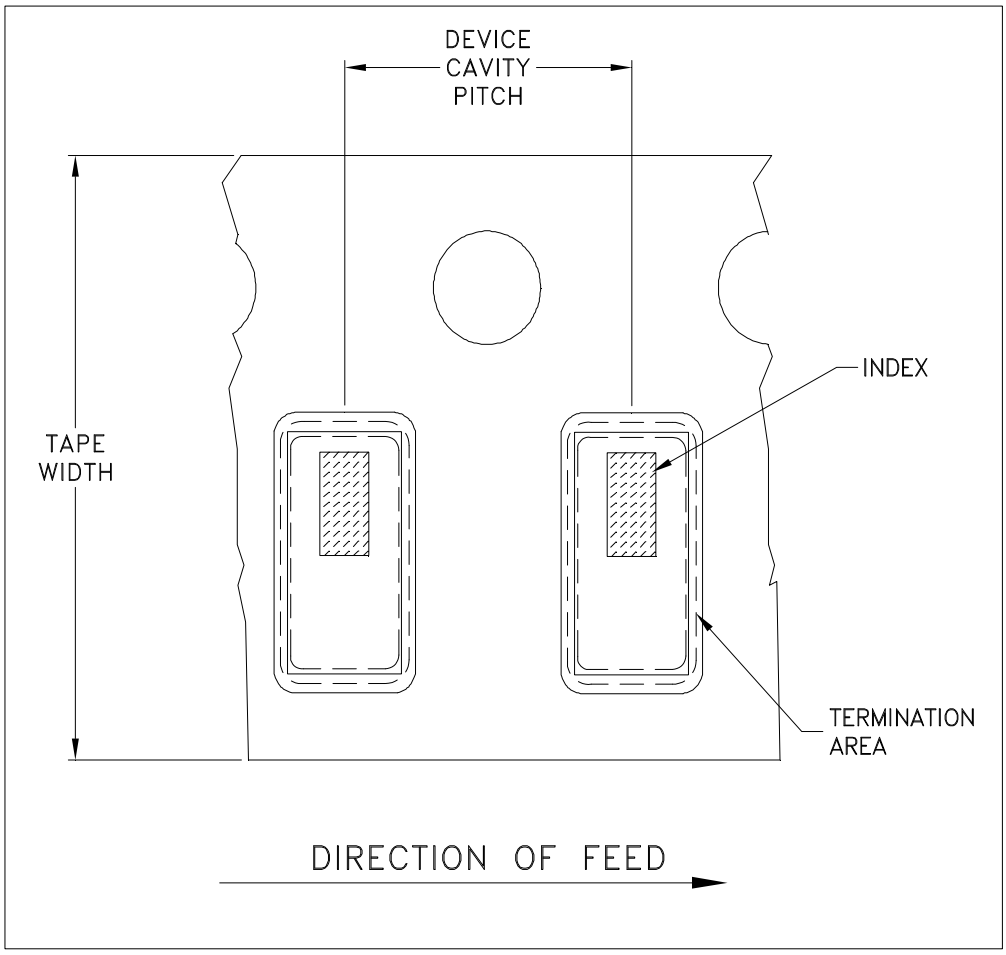


ILLUSTRATION 1

Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel	
8	4	7	Small quantity standards (see note)	20
				50
				100
				200
				500
				1000
			Standard	3000

Note: Please Consult individual model data sheet to determine device per reel availability.

Mini-Circuits carrier tape materials provide protection from ESD (Electro-Static Discharge) during handling and transportation. Tapes are static dissipative and comply with industry standards EIA-481/EIA-541.

Go to: www.minicircuits.com/pages/pdfs/tape.pdf